



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

09/602,883

06/26/2000

Andrew M. Haas

040782-5083

3038

9629

7590

09/06/2005

MORGAN LEWIS & BOCKIUS LLP
1111 PENNSYLVANIA AVENUE NW
WASHINGTON, DC 20004

EXAMINER

NELSON, ALECIA DIANE

ART UNIT

PAPER NUMBER

2675

DATE MAILED: 09/06/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental
Notice of Allowability

Application No.

09/602,883

Examiner

Alecia D. Nelson

Applicant(s)

HAAS, ANDREW M.

Art Unit

2675

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 3/21/05.
2. ☒ The allowed claim(s) is/are 2-3, 10, 12-14, 16, 17, 21-24, 26, 27, 31-33, 35, 36, 39, 40, 42-46, 48, 49, 52 and 53 (renumbered claims 1-30).
3. ☒ The drawings filed on 26 June 2000 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


SUMATI LEFKOWITZ
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

Allowable Subject Matter

1. **Claims 2-3, 10, 12-14, 16, 17, 21-24, 26, 27, 31-33, 35, 36, 39, 40, 42-46, 48, 49, 52, and 53** (now renumbered as *claims 1-30*) are allowed.
2. The following is a statement of reasons for the indication of allowable subject matter: None of the references either singularly or in combination teach or fairly suggest a system for driving a flat panel display comprising a register, a latch, logic circuits, a plurality of change up switch elements, a plurality of change down switch elements, and an oscillator circuit having a first sinusoidal output connected to each change up switch element first terminal, and a second sinusoidal output connected to each change down switch element first terminal, wherein the oscillator circuit is configured such that signals at the first and second sinusoidal outputs are about 180 degrees out of phase with each other. While Yamaguchi et al. (U.S. Patent No. 5,307,084) in view of Tanaka (U.S. Patent No. 5,438,290) teaches the system for driving a flat panel display comprising a register, a latch, logic circuits, a plurality of change up switch elements, and a plurality of change down switch elements as recited in the claims, there fails to be any disclosure of the oscillator circuit being composed as claimed in **claims 10 and 23**. Further none of the other cited reference makes up for the deficiencies of the teachings of Yamaguchi et al. and Tanaka. With reference to **claims 35 and 48**, none of the references teach or fairly suggest that the oscillator

Art Unit: 2675

circuit provides a first voltage waveform corresponding to the change up driver and a second voltage waveform corresponding to the change down driver.


Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alecia D. Nelson whose telephone number is 571-272-7771. The examiner can normally be reached on Monday-Friday 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on 571-272-3638. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

4. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

adn/ADN
April 13, 2005



**SUMATI LEFKOWITZ
SUPERVISORY PATENT EXAMINER**